	Contents 7	Reference to last Measurement 8

M. A. R. 57 (Rule 116)

No. C/08

Measurement Book

127336

Serial No. ...First and final bill: PART 2

Name of work ...Improvements to roads and drains from near Eridhor house area to Amruthahalli in ward no.07:

Name of Contractor of nature of Agency ...Sri. Ninganagowda. V. Patil:

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Est cost:-	30.00 lakhs:					
	Job code No:-	007-16-000003					
	P-code:	P3089.					
	A.S. No:-	BBMP/CE/VNK/PR/25/15-16; date: 19-08-15					
	T.S. No:-	BBMP/CE/VNK/PR/29/15-16; date: 21-08-15					
	Agr. No:-	EE/BTP/Agr/252/15-16; date: 26-02-16.					
	Work orders No:-	No. EE/BTP/BBMP/E-PMT/252/15-16; date: 26-02-16.					
	Date of completion:-	14-12-17					
	Date of recording:-	14-12-17					

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No 01:-						
	Removing BS slab of drain and stacking:						
	Qty vide page No. 1274/127386 →					709.50 sqm	39732.00
	At the rate of Rs: 56.0 →						
	Item No 04:-						
	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2mts and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed:						
	Qty vide page No. 1274/127387 →					77.40 sqm	5805.00
	At the rate of Rs. 75.0 →						
	Item No 05:-						
	Providing and constructing non-load bearing with cement concrete solid blocks with compressive strength:-						

Serial No. .....

Name of work .....

Name of Contractor of nature of Agen

Date of commencement of work.....

Date	Full description, etc, of work
1	2
	Qty vide page
	At the rate of
	Item No 02:-
	Providing gra
	pointing in CM 1:3.
	Qty vide pa
	At the rate
	Item No 12:-
	Earthwork ex
	water supply, ear

th	Contents 7	Reference to last Measurement 8
		709.50 sqm → 39732.00
ns in ordinary soil		
2mts and an average		
end sides neatly dressed:		
0 sqm		5805.00
bearing with cement		
th:)		

M. A. R. 57 (Rule 116)

Measurement Book

No. C/08

127337

Serial No. .....

Name of work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Qty vide page No. 1274/12738B →				172.00	sqm	123840.00
	At the rate of Rs: 720.00 →						
Item. No.02:-							
	Providing granite slabs of 1 pointing in CM 1:3.				Refixing stone slabs of drains and		
	Qty vide page No. 1274/12738B →				567.15	sqm	42536.00
	At the rate of Rs: 75.0 →						
Item. No.12:-							
	Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches.,						
	Qty vide page No. 1274/127390 → 12.96 cum						
	At the rate of Rs: 176.0 →						2280.96
	Item No.13:-						
	Providing and laying in position plain cement concrete of mix M10 with OPC cement @ 220kgs with 40mm and down size graded granite metal coarse aggregates @ 0.89 cum and fine aggregates @ 0.465 cum machine mixed, concrete laid in layers.,						
	Qty vide page No. 1274/127390 → 2.16 cum						
	At the rate of Rs: 5050.0 →						10908.00
	Item No.14:-						
	providing and constructing granite/trap/basalt size stone						

Serial No. .....
Name of work .....
Name of Contractor of nature of
Date of commencement of work..

Date	Full description, etc, of wo
1	2
	masonry in founda
	in courses not les
	each course includ
	Qty vide pa
	At the rate
	Item No.18:-
	Providing
	Qty vide p
	At the rate

	Contents 7	Reference to last Measurement 8
ry	soil not exceeding 1·5m	
s	of pits and trenches.;	
16	cum	2280·96
	cement concrete of mix	
	down size graded	
n	and fine aggregates	
	ayers..;	
6	cum	10908·00
p	basalt	size stone

M. A. R. 57 (Rule 116)

Measurement Book

No. C/08

127338

Serial No. .....

Name of work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	masonry in foundation. with cement mortar 1:6, stone hammered dressed in courses not less than 20 cms high, bond stones at two m apart in each course including cost of materials.;						
	Qty vide page No. 1274/127391 →					5·76cum.	2209·00
	At the rate of Rs. 3835·0 →						
	Item No. 18:- Providing ruled pointing to coursed stone masonry..;						
	Qty vide page No. 1274/127391 →					4·80 Sqm.	441·60
	At the rate of Rs. 92·0 →						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No. 15:-						
	Providing and removing centering, shuttering, strutting, propping etc, and removal of form work for foundation..)						
	Qty vide page No. 1274/127391 →				8.39	Sq.m	
	At the rate of Rs: 235.00 →						1971.65
	Item No. 17:-						
	Providing 7.M.T steel reinforcement for RCC work:						
	Qty vide page No. 1274/127392 →				0.40	tone	
	At the rate of Rs: 78000.00 →						31200.00
	Item No. 16:-						
	Providing and laying cement concrete using 20mm and down size granite jelly of ready mix concrete for RCC works.						

Serial No. .....

Name of work .....

Name of Contractor of nature of Age

Date of commencement of work.....

Date	Full description, etc, of work
1	2
	Qty vide page
	At the rate of R
	Item No. 03:-
	Providing gran
	fixed in cement mo

Contents 7	Reference to last Measurement 8
ng , strutting, propping	
sq.m	1971.65
work:	
me	31200.00
ng 20mm and down	
ke.	

M. A. R. 57 (Rule 116)
Measurement Book

No. C/08

127339

Serial No. .....

Name of work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Qty vide page No. 1274/127393 → 15.20 cum:						
	At the rate of Rs: 5845.00 →						88844.00
	Item No. 03:-						
	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc.						
		01	25.0	1.20	-	= 30.00	
		01	25.0	1.20	-	= 30.00	
		01	25.0	1.20	-	= 30.00	
		01	25.0	1.20	-	= 30.00	
		01	15.0	1.20	-	= 18.00	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		01	5.0	0.9	-	= 4.50	
						142.50 sq.m.	
		Qty ltd to 141.90 sqm					
		At the rate of Rs: 635.00 →					90106.50
	Item No.06:-						
	Scarifying the existing granular road surface:						
	Qty vide page no 1274/127394 → 2187.00 sqm						
	At the rate of Rs: 18.0 →						39366.00
	Item No.07:-						
	Compaction of original ground with maximum of 6passes:						
	Qty vide page No. 1274/127394 → 2187.00 sqm						
	At the rate of Rs: 4.0 →						8748.00

Serial No. .....

Name of work .....

Name of Contractor of nature of Agency

Date of commencement of work.....

Date	Full description, etc, of work	Nu
1	2	
	Item No.08:-	
	Providing, layi	
	aggregates to wet mix	
	Qty vide page	
	At the rate	
	Item No.09:-	
	Providing and	
	prepared surface of	
	Qty vide pa	

ntents 7	Reference to last Measurement 8
50.	
2.50	sq.m.
	90106.50
face :	
qm	
	39366.00
um of 6 passes:	
0 sqm	
	8748.00

M. A. R. 57 (Rule 116)
Measurement Book

No. C/08
127340

Serial No. .....

Name of work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No. 08:- Providing, laying, spreading and compacting graded stone aggregates to wet mix macadam. Qty vide page No. 1294 | 127396 → 546.78 cum At the rate of Rs: 1435.00 →						784679.30
	Item No. 09:- Providing and applying primer coat with bitumen emulsion on prepared surface of granular base. Qty vide page No. 1294 | 127398 → 2187.10 sqm						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	At the rate of Rs: 30.0 →						65613.00
	Item No.10:-						
	Providing and laying semi-dense bituminous concrete 25mm to 30mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic pavers finisher with sensor control to the required grade,						
	cable road:-						
	0-15	1.0	15.0	5.60	0.03	= 2.52	
	15-30	1.0	15.0	5.10	0.03	= 2.30	
	30-45	1.0	15.0	5.20	0.03	= 2.34	
	45-60	1.0	15.0	5.70	0.03	= 2.57	

9.73.

Serial No. .....
Name of work .....
Name of Contractor of nature of
Date of commencement of work.

Date	Full description, etc, of wo
1	2
	60-69
	Culverti:-
	69-84
	84-99
	99-114
	114-12
	129-14
	144-166
	Sridhar hou
	0-15

Contents 7	Reference to last Measurement 8
	65613.00
uminous concrete 25mm to ducing an average regates of specified ·5 to 5% of mix and aying with a hydrostatic d grade),	
2·52 2·30 2·34 2·57	
9.73.	

M. A. R. 57 (Rule 116)

Measurement Book

No. C/08

127341

Serial No. .....

Name of work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 9.73, 7	Reference to last Measurement 8
	60-69	1·0	9·0	5·50	0·03	=1·49	
	Culverti-						
	69-84	1·0	15·0	5·70	0·03	= 2·57	
	84-99	1·0	15·0	5·50	0·03	= 2·48	
	99-114	1·0	15·0	5·70	0·03	= 2·57	
	114-129	1·0	15·0	5·20	0·03	= 2·34	
	129-144	1·0	15·0	5·40	0·03	= 2·43	
	144-166	1·0	22·0	5·20	0·03	= 3·43	
						27·01 cum.	27.04.
	Sridhar house roadi-						
	0-15	1·0	15·0	4·90	0·03	= 2·21	
							29·25

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth	29.25	
1	2	3	4	5	6	7	8
	15.30	1.0	15.0	5.10	0.03 =	2.30	
	30-43	1.0	13.0	4.90	0.03 =	1.91	
						6.41 cum	
	shobha enclave:-						
	0-30	1.0	30.0	6.50	0.03 =	5.85 cum	
	Amruthanagara near sharadha school:-						
	0-15	1.0	15.0	7.50	0.03 =	3.38	
	15-30	1.0	15.0	7.50	0.03 =	3.38	
	30-45	1.0	15.0	7.50	0.03 =	3.38	
	45-60	1.0	15.0	7.50	0.03 =	3.38	
	60-75	1.0	15.0	7.6	0.03 =	3.42	
	75-90	1.0	15.0	7.6	0.03 =	3.42	
	90-105	1.0	15.0	8.0	0.03 =	3.60	
	105-115	1.0	10.0	8.0	0.03 =	2.40	
						26.34 cum	65.67

Serial No. .....

Name of work .....

Name of Contractor of nature of Agency

Date of commencement of work.....

Date	Full description, etc, of work	Nu
1	2	
	As the rate	
	Item NO. 11:-	
	Road marking	
	reflectorising glass	
	cable road:-	
	sridhar house road:-	
	shobha enclave:-	

pth 6	Contents 29.25 7	Reference to last Measurement 8
3 =	2.30	
3 =	1.91	
	6.41 cum	
3 =	5.85 cum	
3 =	3.38	
3 =	3.38	
3 =	3.38	
3 =	3.38	
3 =	3.42	
3 =	3.49	
3 =	3.60	
3 =	2.40	
	26.34 cum	65.67

M. A. R. 57 (Rule 116)

Measurement Book

No. C/08

127342

Serial No. .....

Name of work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work.....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
					TOTAL=	65.61 cum	65.67
	At the rate of Rs: 8474.60 →						555979.10
	Item NO. 11:- Road marking with hot applied thermoplastic compound with reflectorising glass beads on bituminous surface:						
	cable road:-	02	166.0	0.10	-	= 33.20	
	sridhar house road:-	02	43.0	0.10	-	= 8.60	
	shobha enclave:-	02	30.0	0.10	-	= 6.00	
						47.80	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth	47.80	
1	2	3	4	5	6	7	8
	Amruthanagara near sharadha school:-						
	0-115	02	115	0.10	-	23.00	
					TOTAL=	70.80 Sqm	
	Qty bld to: 43.00 sqm →						20425.00
	At the rate of Rs: 475.00 →						
	Item No.19:-						
	Lead for disposal of debris shall be payable at carriage rates by mechanical means including loading and unloading.						
	Qty vide Item No.(19)+(04) → 90.36 cum						12650.40
	At the rate of Rs 140.0 →						
						GRAND TOTAL=	19,47165.00

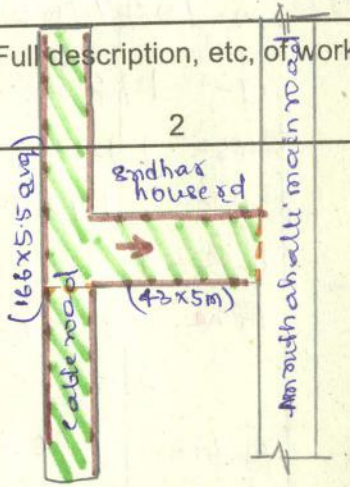
Cable

15/12/17

Assistant Executive Engineer
Kodigehalli Sub Division
Bangalore Mahanagara Palike
Bangalore - 560 092

AE(W07) 14/12/17.

Serial No. .....
Name of work .....
Name of Contractor of nature of Age
Date of commencement of work.....

Date	Full description, etc, of work
1	2
	

MSV cable road:-

AE(W07)

Depth 6	Contents 7	Reference to last Measurement 8
	47.80	
–	23.00	
TOTAL=	70.80	
		20425.00
payable at carriage rates		
nd unloading.		
→ 90.36 cum		12650.40
GRAND TOTAL=		19,47165.00

AE(W7) 14/12/17.

M. A. R. 57 (Rule 116)

Measurement Book

No. C/08

127343

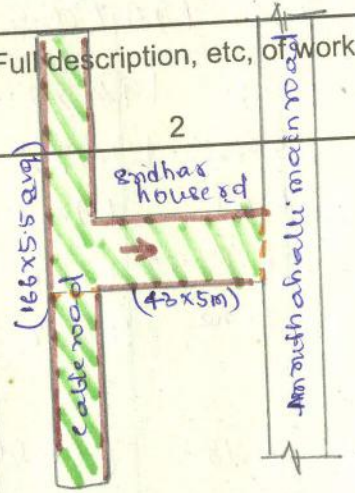
Serial No. ..... From..... To.....

Name of work .....

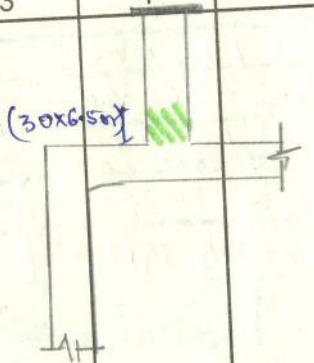
Name of Contractor of nature of Agency .....

Date of commencement of work.....

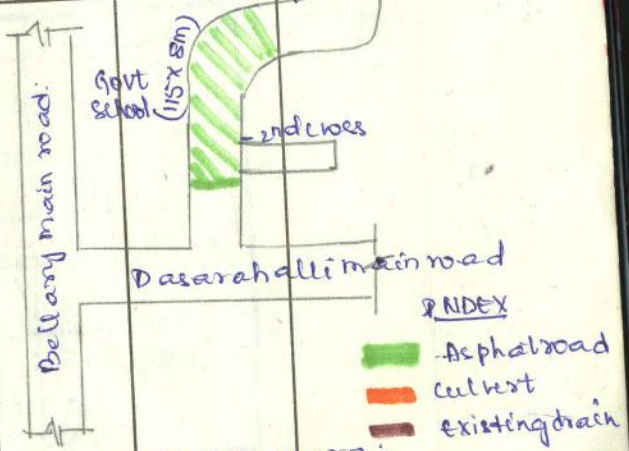
Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8



Mercable road:-



Shobha enclave



Amruthahalli:

PLAN

Assistant Executive Engineer
Kodigehalli Sub Division

AE(W7)

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Content	ce ment
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	

ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ 1947.165-ಅ

ಗಳಿಕೆ ಪಾಸು ಮಾಡಿದೆ : ಇದರಲ್ಲಿ ರೂ 7.00,007-ಅ

ಹೊಣೆಗಾರಿಕೆ ಮಾಡಿಕೊಂಡು ಉಳಿದ ಮೊಬಲಗು 1877.158-ಅ

ರೂ: Eighteen Lakh Seventy Seven Hundred one hundred fifty eight only

ಈ ಮುಖಾಂತರ ನಿಡಲಾಗಿದೆ

ಲೆಕ್ಕಾಧೀಕ್ಷಕರು

Total Rs: 1947.165-ಅ

IT- 19472-ಅ

CGS- 19472-ಅ

CBF- 1947-ಅ

LR- 13366-ಅ

Fine. 5750-ಅ

Addn. 7.00,007-ಅ

Cheque: 18,77,158-ಅ

Serial No. .....

Name of work .....

Name of Contractor of nature of Agency

Date of commencement of work.....

Date	Full description, etc, of work	Nu
1	2	